ENVIRONMENTAL CHEMISTS

Date of Report: 12/03/03 Date Received: 11/20/03

Project: Metro Self Monitor, PO# M92231, F&BI 311190

Date Extracted: 12/01/03 Date Analyzed: 12/01/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID	Chromium	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
Laboratory ID				
M92231	0.34	0.24	0.24	0.06
311190-01				
Method Blank	< 0.05	< 0.05	< 0.10	< 0.05

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 311246-01 (Duplicate)

				Relative	
	Reporting	Sample	Duplicate	Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.21	0.21	0	0-20
Copper	mg/L (ppm)	0.16	0.16	0	0-20
Nickel	mg/L (ppm)	0.15	0.15	0	0-20
Zinc	mg/L (ppm)	0.05	< 0.05	nm	0-20

Laboratory Code: 311246-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	0.21	90	80-120
Copper	mg/L (ppm)	2	0.16	86	80-120
Nickel	mg/L (ppm)	4	0.15	85	80-120
Zinc	mg/L (ppm)	2	0.05	91	80-120

Laboratory Code: Laboratory Control Sample

	Lindold Journ	- Contract C	- CI COMPINE					
		Reporting	Spike %	Recovery	% Recovery	Acceptance	e RPD	
1 1	Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20))
, T	Chromium	mg/L (ppm)	2	105	95	80-120	10	
	Copper	mg/L (ppm)	2	105	94	80-120	11	
	Nickel	mg/L (ppm)	4	106	97	80-120	9	
	Zinc	mg/L (ppm)	2	107	98	80-120	9	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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	La acció			SAMPL	ERS A	ignature)					_	 >				Pa	ge#		of	1
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Ph. (206) 285-8282

Received by:

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

December 3, 2003

DUPLICATE COPY

INVOICE # 03ACU1203-3

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M92231, F&BI 311190 - Results of testing requested by Gerry Thompson for material submitted on November 20, 2003.

FEDERAL TAX ID # (b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

December 3, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 20, 2003 from the Metro Self Monitor, PO# M92231, F&BI 311190 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Marrow

Charlene Morrow

Chemist

Enclosures ACU1203R.DOC